



Attorney Docket No.: 06998-028001

#15

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : James K. Baker et al.

Art Unit : 2748

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Examiner : M. Opsasnick

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Notice of Allowance Date: February 14, 2000

Title : PRONUNCIATION GENERATION IN SPEECH RECOGNITION

Attention: Official Draftsman

Assistant Commissioner for Patents

Washington, D.C. 20231

TRANSMITTAL OF FORMAL DRAWINGS

In response to the Notice of Allowability mailed February 14, 2000, please substitute the enclosed sixteen (16) sheets of formal drawings for the corresponding drawings presently in the application.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: May 9, 2000

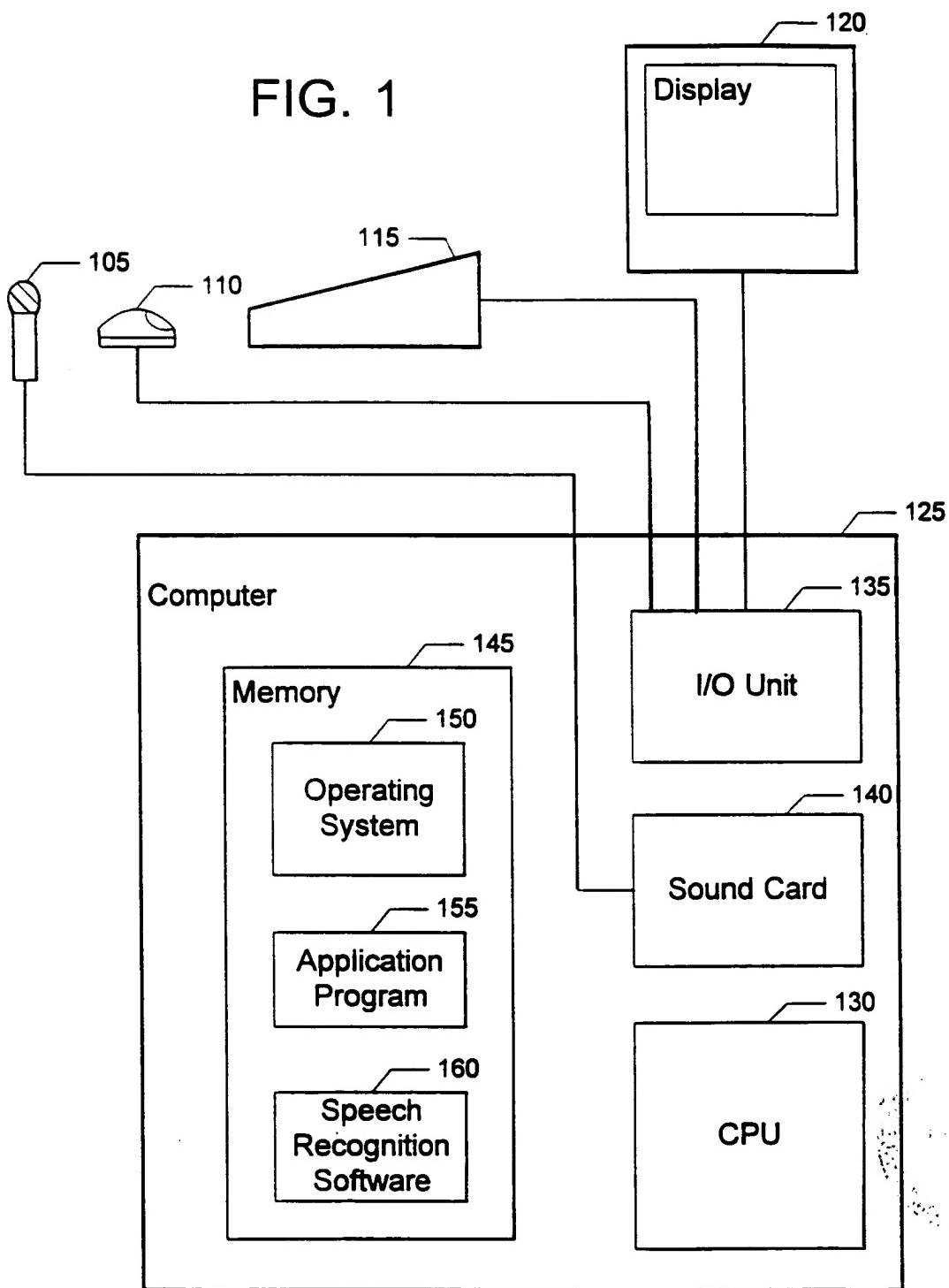

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FIG. 1



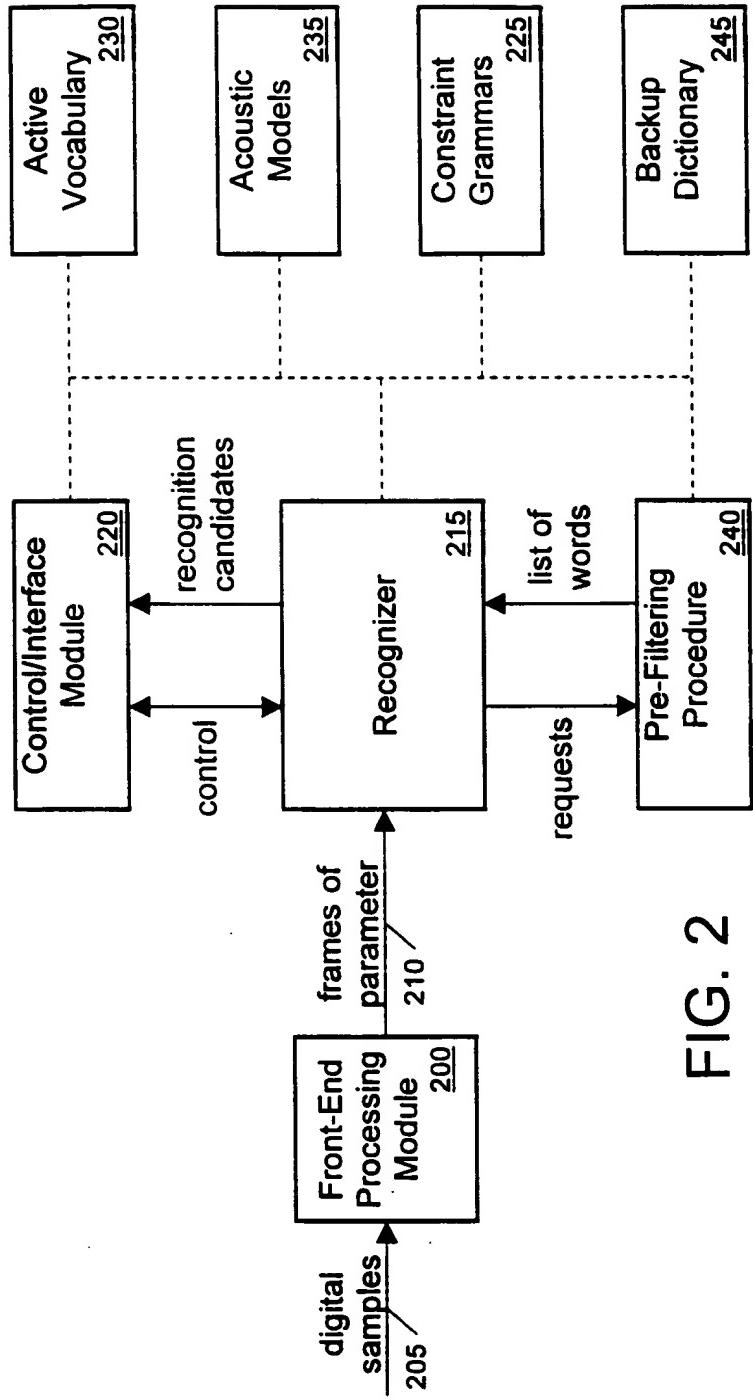


FIG. 2

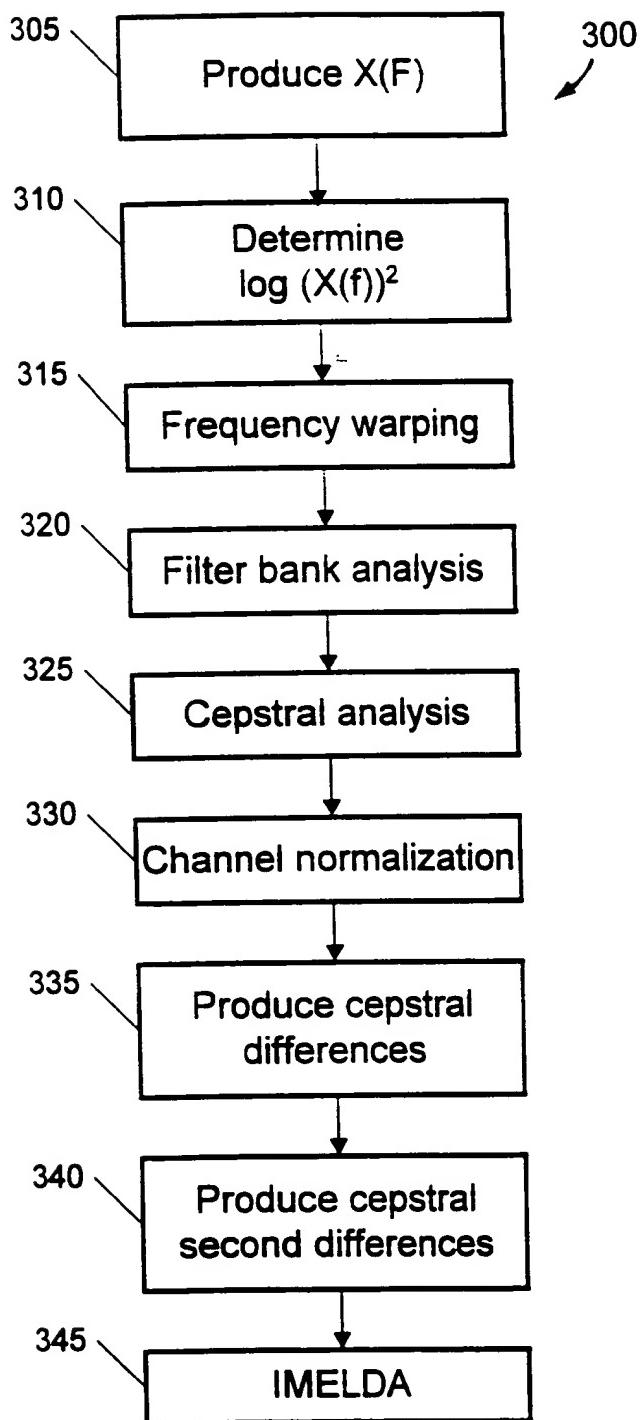
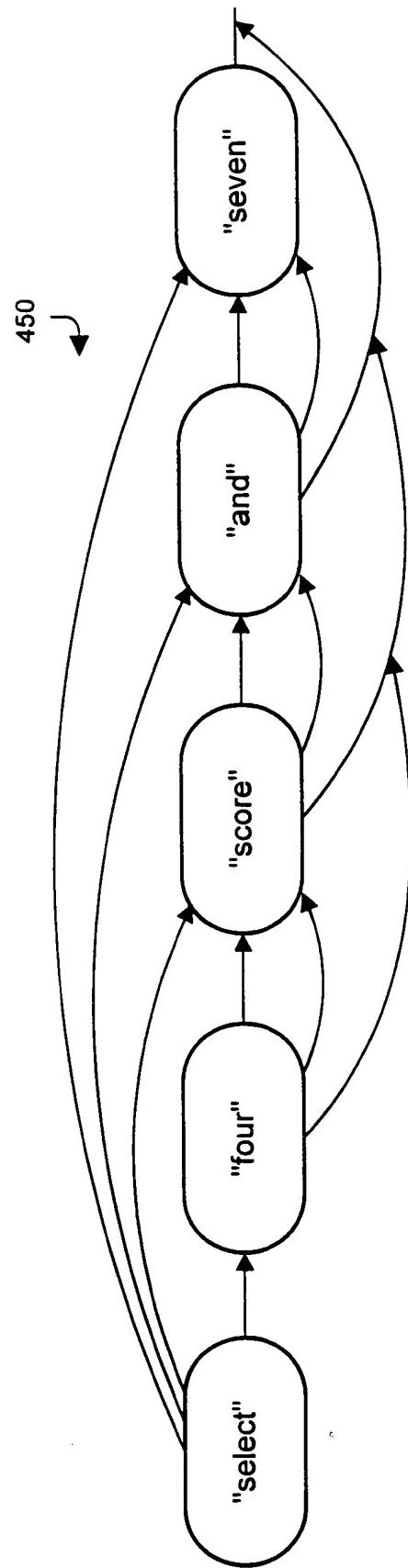
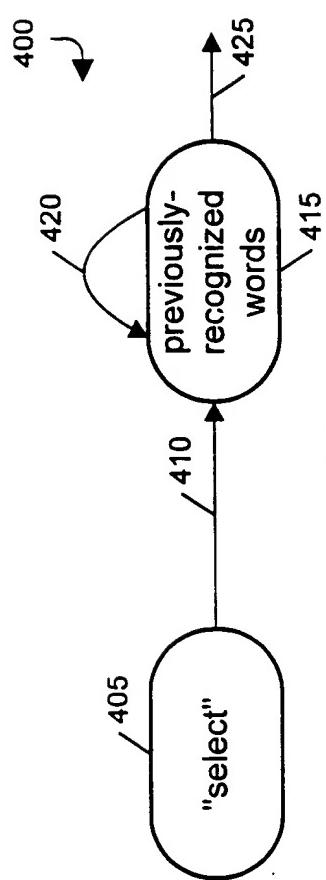


FIG. 3



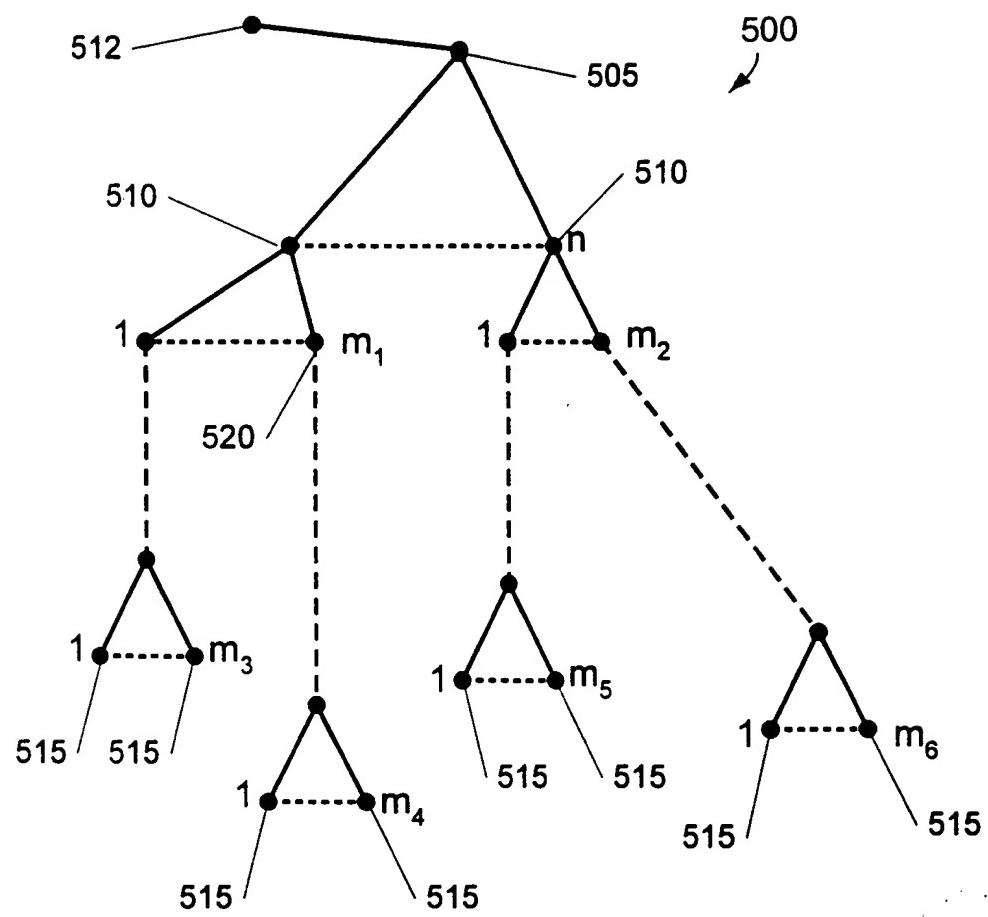


FIG. 5

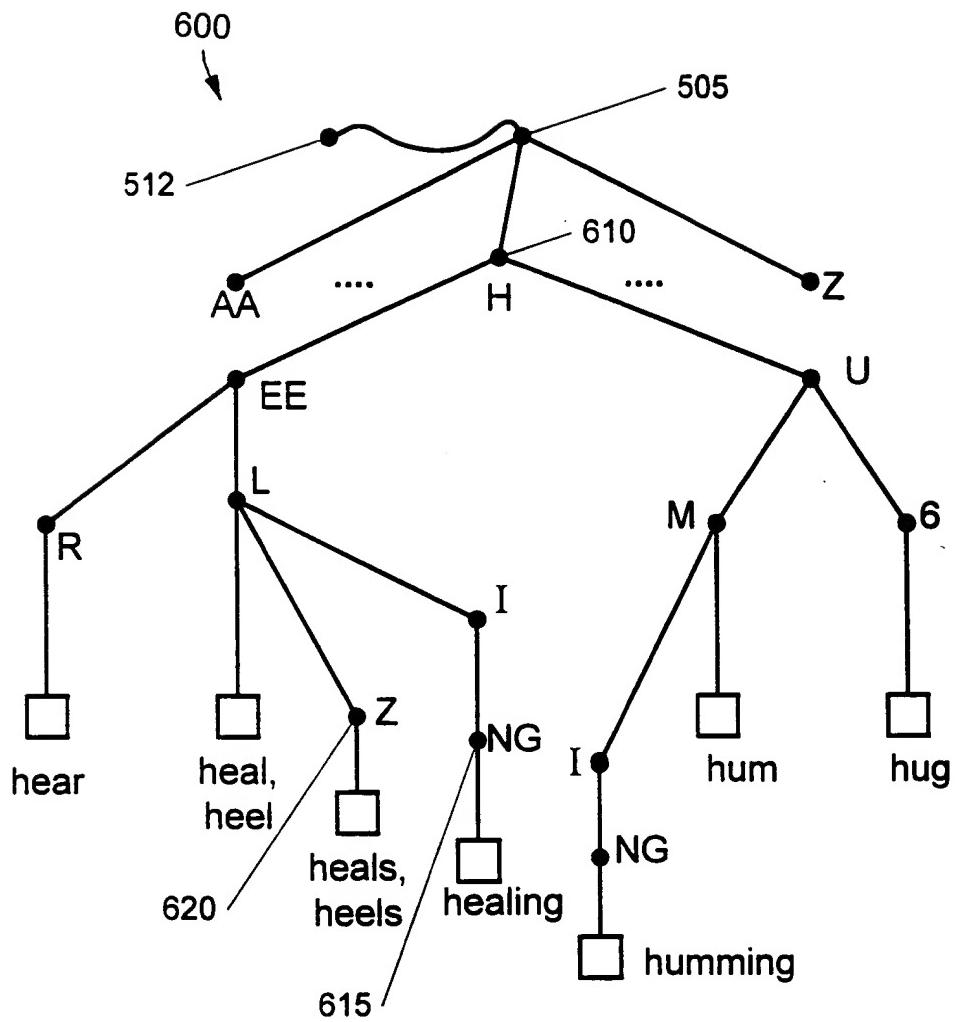


FIG. 6

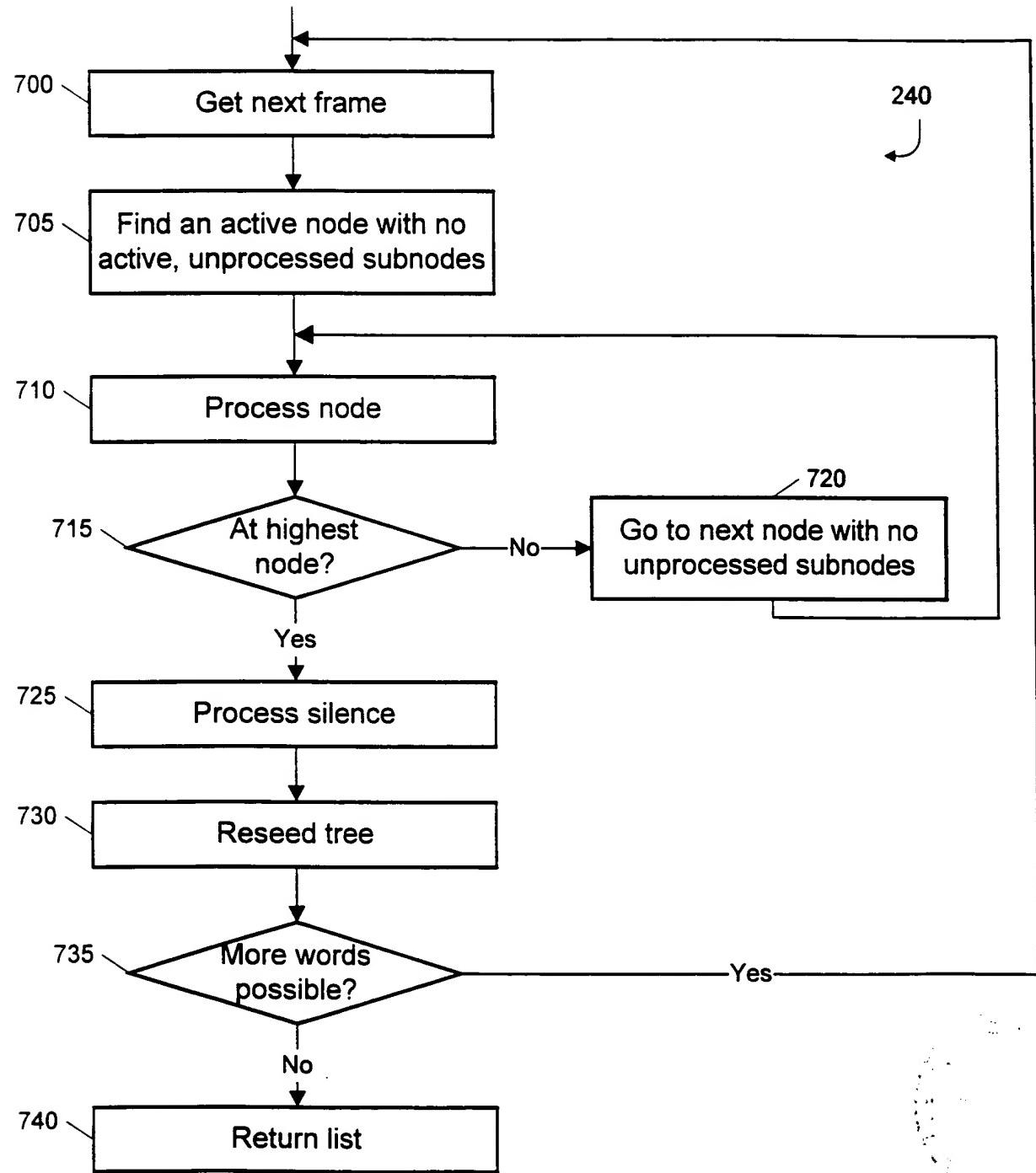


FIG. 7

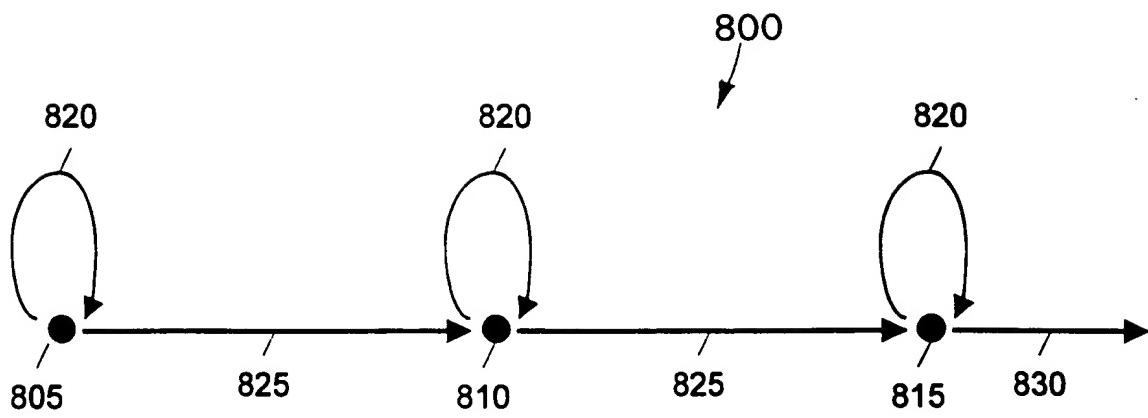


FIG. 8A

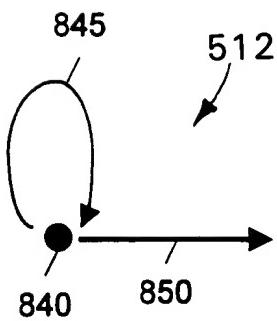


FIG. 8B

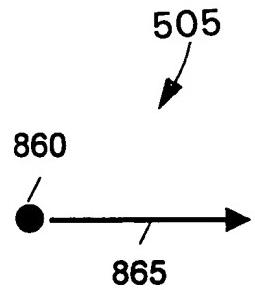


FIG. 8C

Frame	840 ("A")	805 ("B")	810 ("C")	815 ("D")	Next Node ("N")
900—0	0	---	---	---	---
905—1	$S_{A1} = A_{A1}$	$S_{B1} = A_{B1}$	---	---	---
910—2	$S_{A2} = S_{A1} + A_{A2}$	$S_{B2} = \min(S_{B1} + \text{stay}_B, S_{A1}) + A_{B2}$	$S_{C2} = S_{B1} + \text{leave}_B + A_{C2}$	---	---
915—3	$S_{A3} = S_{A2} + A_{A3}$	$S_{B3} = \min(S_{B2} + \text{stay}_B, S_{A2}) + A_{B3}$	$S_{C3} = \min(S_{C2} + \text{stay}_C, S_{B2} + \text{leave}_B) + A_{C3}$	$S_{D3} = S_{C2} + \text{leave}_C + A_{D3}$	---
920—4	$S_{A4} = S_{A3} + A_{A4}$	$S_{B4} = \min(S_{B3} + \text{stay}_B, S_{A3}) + A_{B4}$	$S_{C4} = \min(S_{C3} + \text{stay}_C, S_{B3} + \text{leave}_B) + A_{C4}$	$S_{D4} = \min(S_{D3} + \text{stay}_D, S_{C3} + \text{leave}_C) + A_{D4}$	$S_{N4} = S_{D2} + \text{leave}_D + A_{N4}$
925—n	$S_{An} = S_{An-1} + A_{An}$	$S_{Bn} = \min(S_{Bn-1} + \text{stay}_B, S_{An-1}) + A_{Bn}$	$S_{Cn} = \min(S_{Cn-1} + \text{stay}_C, S_{Bn-1} + \text{leave}_B) + A_{Cn}$	$S_{Dn} = \min(S_{Dn-1} + \text{stay}_D, S_{Cn-1} + \text{leave}_C) + A_{Dn}$	$S_{Nn} = \min(S_{Nn-1} + \text{stay}_M, S_{Mn-1} + \text{leave}_M) + A_{Nm}$

FIG. 9

Frame	810 ("A")	805 ("B")	810 ("C")	815 ("D")	Next Node ("N")
900—0	$S_{AO} = 0$	---	---	---	---
905—1	$S_{A1} = f(S_{AO}, A_{A1})$	$S_{B1} = f(S_{AO}, A_{B1})$	---	---	---
910—2	$S_{A2} = f(S_{A1}, A_{A2})$	$S_{B2} = f(S_{B1}, \text{stay}_B, S_{A1}, A_{B2})$	$S_{C2} = f(S_{B1}, \text{leave}_B, A_{C2})$	---	---
915—3	$S_{A3} = f(S_{A2}, A_{A3})$	$S_{B3} = f(S_{B2}, \text{stay}_B, S_{A2}, A_{B3})$	$S_{C3} = f(S_{C2}, \text{stay}_C, S_{B2}, \text{leave}_B, A_{C3})$	$S_{D3} = f(S_{C2}, \text{leave}_C, A_{D3})$	---
920—4	$S_{A4} = f(S_{A3}, A_{A4})$	$S_{B4} = f(S_{B3}, \text{stay}_B, S_{A3}, A_{B4})$	$S_{C4} = f(S_{C3}, \text{stay}_C, S_{B3}, \text{leave}_B, A_{C4})$	$S_{D4} = f(S_{D3}, \text{stay}_D, S_{C3}, \text{leave}_C, A_{D4})$	$S_{N4} = f(S_{D3}, \text{leave}_D, A_{D3})$
925—n	$S_{An} = f(S_{An-1}, A_{An})$	$S_{Bn} = f(S_{Bn-1}, \text{stay}_B, S_{An-1}, A_{Bn})$	$S_{Cn} = f(S_{Cn-1}, \text{stay}_C, S_{Bn-1}, \text{leave}_B, A_{Cn})$	$S_{Dn} = f(S_{Dn-1}, \text{stay}_D, S_{Cn-1}, \text{leave}_C, A_{Dn})$	$S_{Nn} = f(S_{Dn-1}, \text{leave}_N, A_{Nm})$

FIG. 10

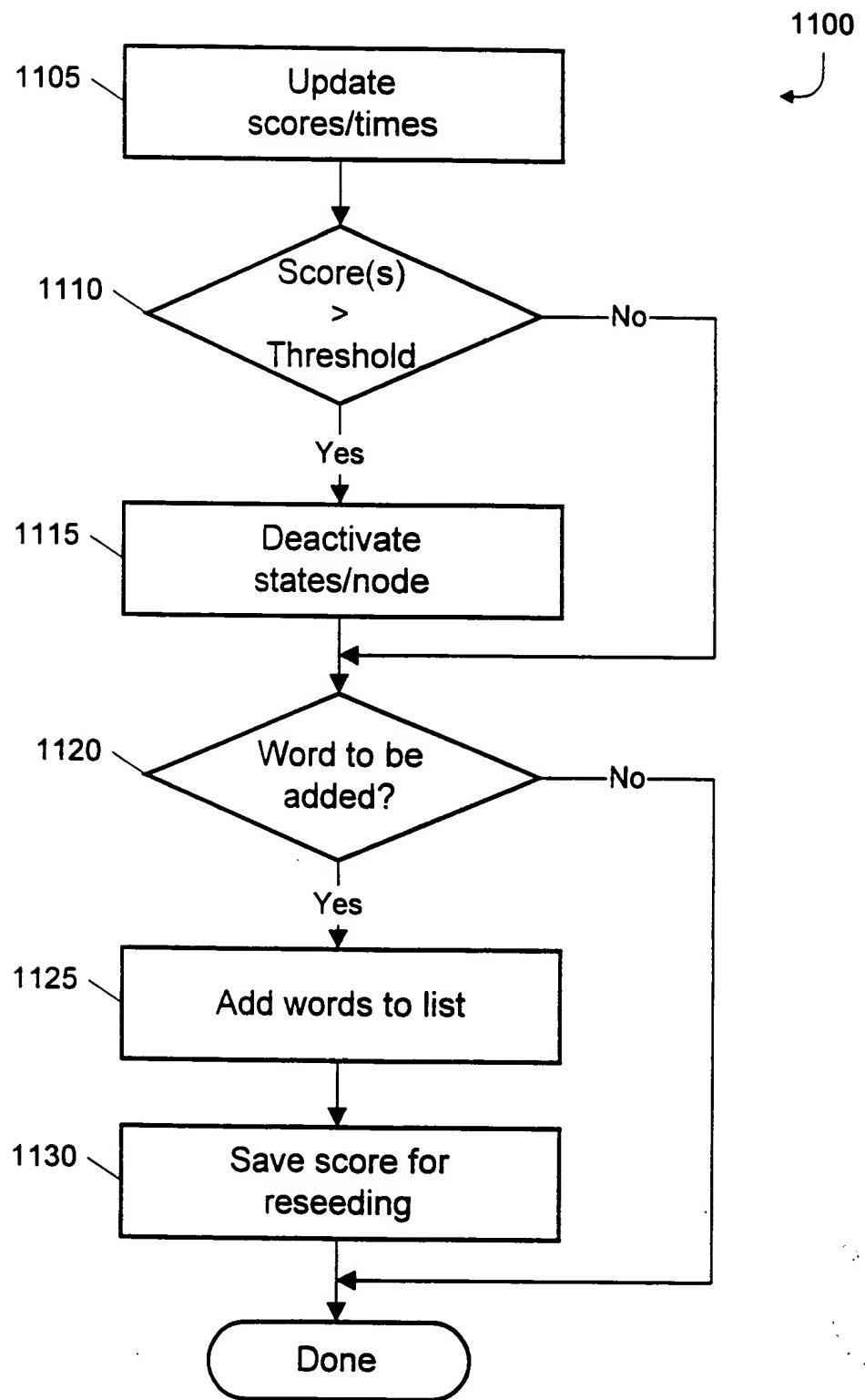


FIG. 11

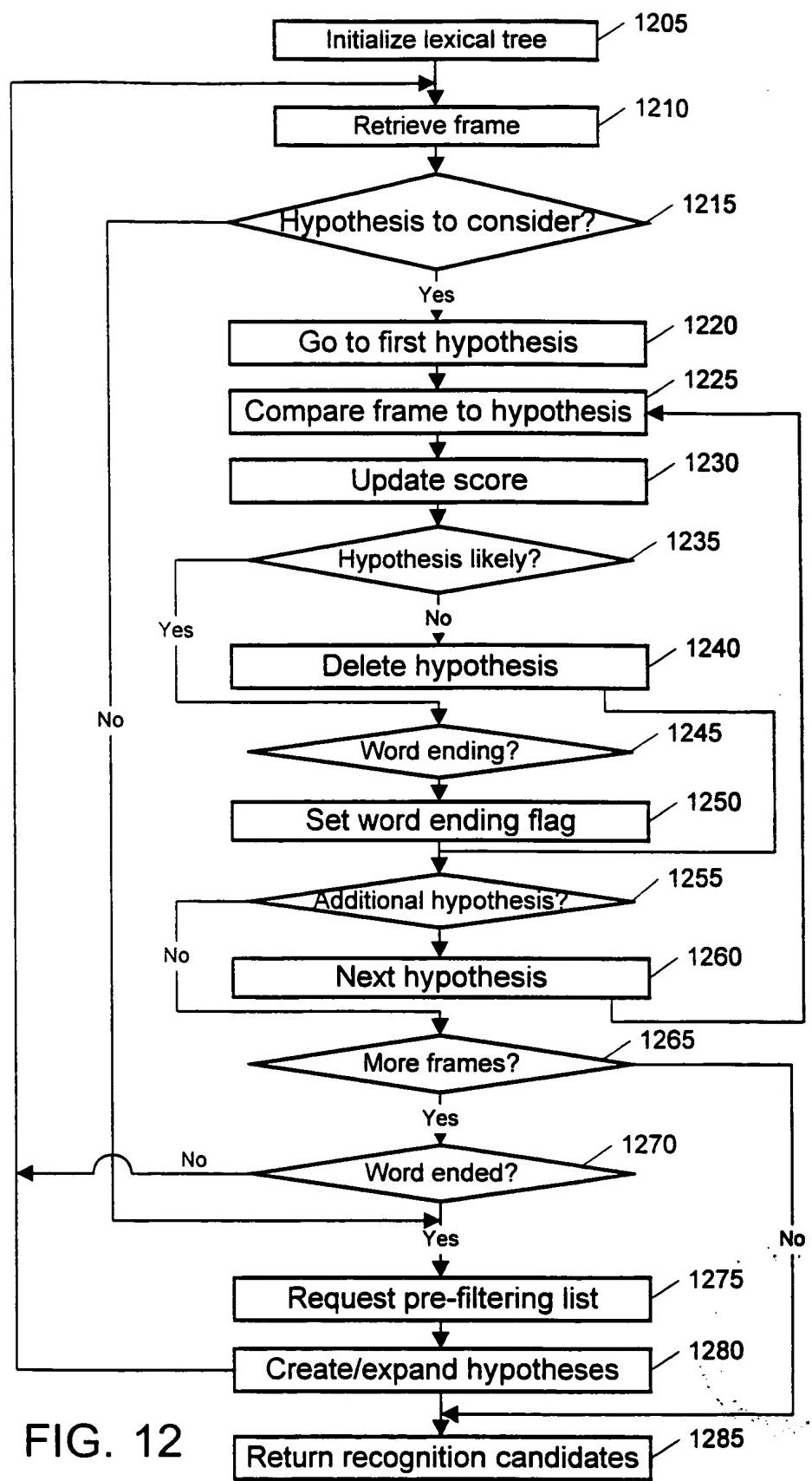
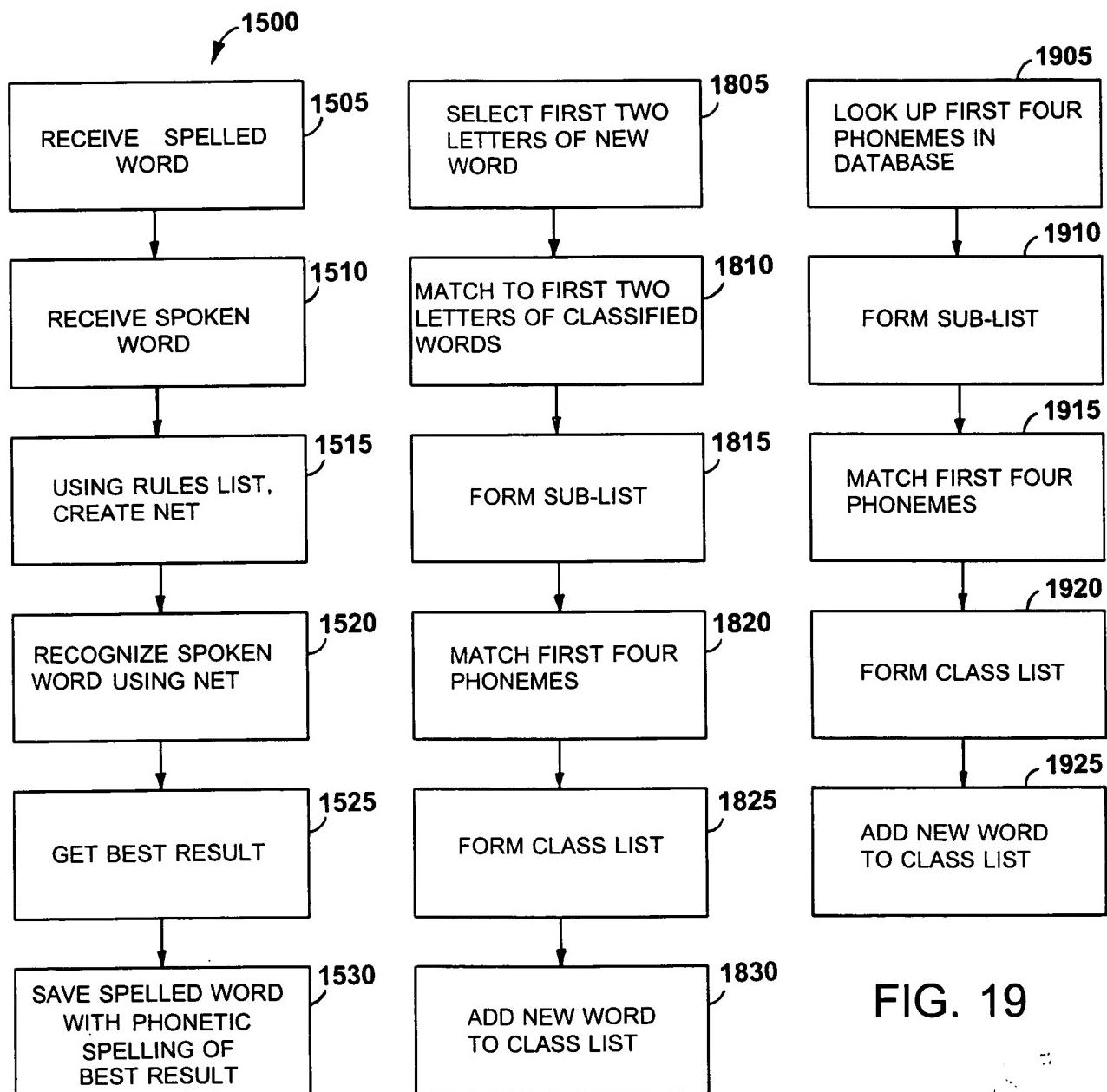


FIG. 12



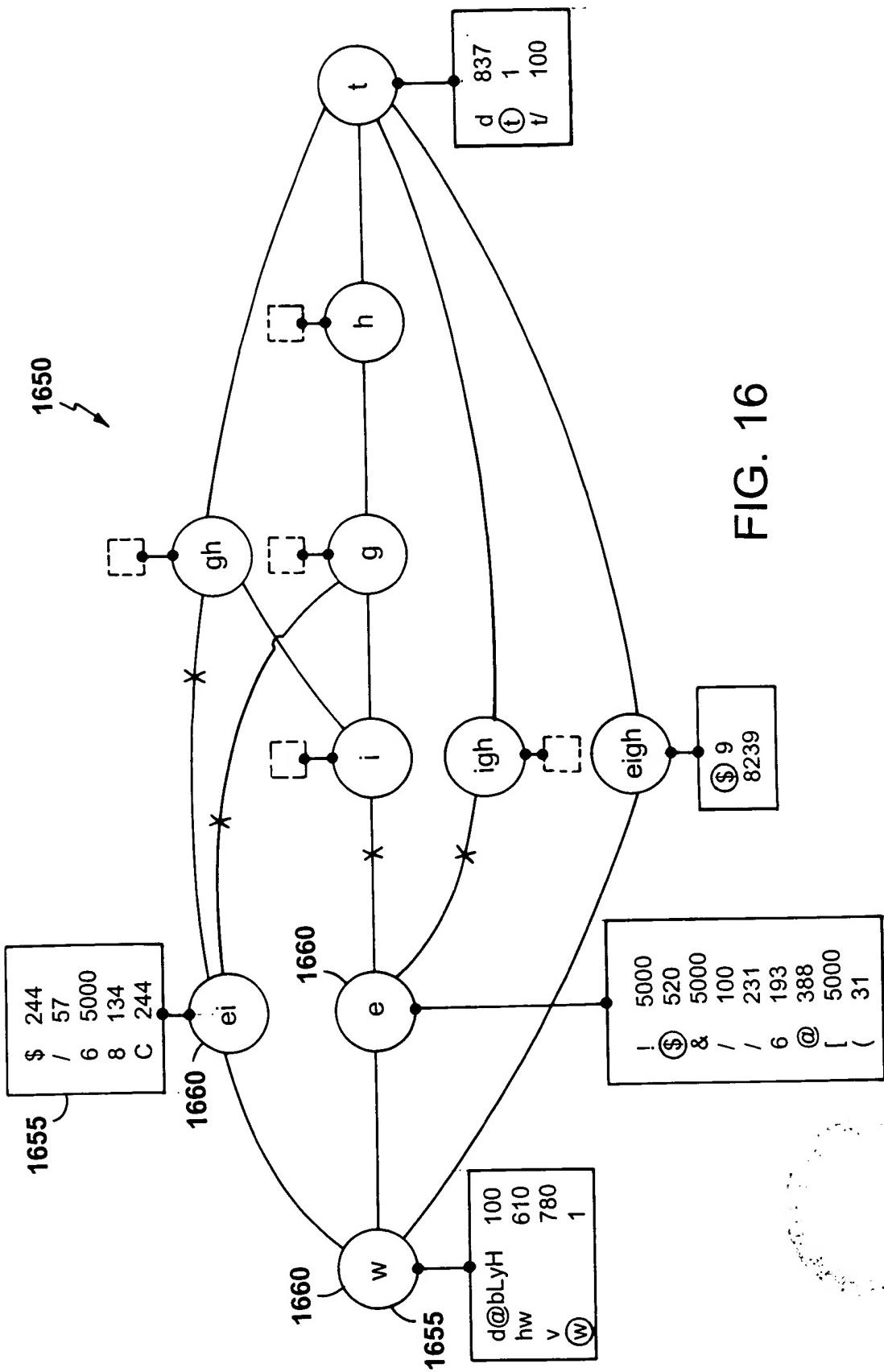


FIG. 16

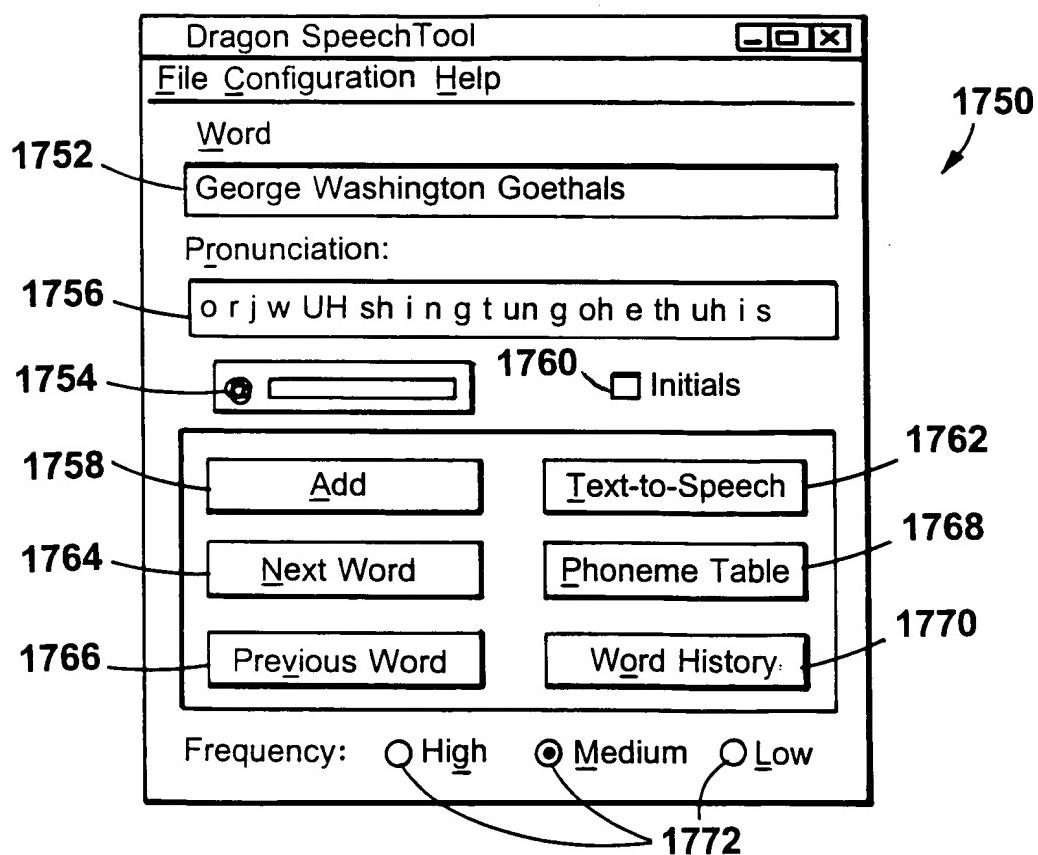


FIG. 17

"	"aw"	h	"h"
!	"a"	i	"I"
\$	"ey"	j	"j"
&	"ah"	k	"k"
)	"AH"	l	"l"
*	"ae"	m	"m"
,	"AE"	n	"n"
/	"ee"	o	"o"
6	"i"	p	"p"
8	"ie"	q	"oo"
:	"oy"	r	"r"
<	"OY"	s	"s"
=	"ow"	t	"t"
?	"OW"	u	"UH"
@	"uh"	v	"v"
A	"EY"	w	"w"
C	"C"	y	"y"
D	"x"	z	"z"
E	"El"	("AW"
F	"ue")	"um"
H	"oo"	-	"un"
I	"IE"		
L	"ul"		
N	"ng"		
O	"OH"		
P	"ur"		
S	"sh"		
T	"th"		
U	"UE"		
V	"UR"		
Z	"zh"		
["o"		
]	"oh"		
a	"A"		
b	"b"		
c	"e"		
d	"d"		
e	"E"		
f	"f"		
g	"g"		

FIG. 20